

Nicholas Jordan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

524
citations

12
h-index

20
g-index

103
ext. papers

673
ext. citations

2
avg, IF

3.34
L-index

#	Paper	IF	Citations
51	Electric field and electron orbits near a triple point. <i>Journal of Applied Physics</i> , 2007 , 102, 033301	2.5	60
50	. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3928-3967	1.3	38
49	Magnetic priming effects on noise, startup, and mode competition in magnetrons. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 94-102	1.3	32
48	Magnetron priming by multiple cathodes. <i>Applied Physics Letters</i> , 2005 , 87, 081501	3.4	27
47	Magnetic Priming at the Cathode of a Relativistic Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 710-717	1.3	23
46	Measurement of electron impact collisional excitation cross sections of Ni to Ga-Like Gold. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 231-234	1.2	22
45	Seeded and unseeded helical modes in magnetized, non-imploding cylindrical liner-plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 101205	2.1	22
44	Discrete helical modes in imploding and exploding cylindrical, magnetized liners. <i>Physics of Plasmas</i> , 2016 , 23, 124502	2.1	21
43	Accurate Wavelength Measurements and Modeling of Fe xv to Fe xix Spectra Recorded in High-Density Plasmas between 13.5 and 17 A. <i>Astrophysical Journal, Supplement Series</i> , 2005 , 158, 230-241	2.8	20
42	Evolution of sausage and helical modes in magnetized thin-foil cylindrical liners driven by a Z-pinch. <i>Physics of Plasmas</i> , 2018 , 25, 056307	2.1	19
41	. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 627-634	1.3	17
40	Magnetic perturbation effects on noise and startup in DC-operating oven magnetrons. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 864-871	2.9	15
39	The electro-thermal stability of tantalum relative to aluminum and titanium in cylindrical liner ablation experiments at 550 kA. <i>Physics of Plasmas</i> , 2018 , 25, 032701	2.1	12
38	Emission nonuniformity due to profilometry variation in thermionic cathodes. <i>Applied Physics Letters</i> , 2006 , 88, 164105	3.4	12
37	The effects of multipactor on the quality of a complex signal propagating in a transmission line. <i>Physics of Plasmas</i> , 2019 , 26, 112114	2.1	12
36	Technique for fabrication of ultrathin foils in cylindrical geometry for liner-plasma implosion experiments with sub-megaampere currents. <i>Review of Scientific Instruments</i> , 2015 , 86, 113506	1.7	11
35	The Electrothermal Instability on Pulsed Power Ablations of Thin Foils. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3753-3765	1.3	11

34	Microwave Power and Phase Measurements on a Recirculating Planar Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 1675-1682	1.3	9
33	Simulations of magnetic priming in a relativistic magnetron. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 858-863	2.9	9
32	Determination of plasma pinch time and effective current radius of double planar wire array implosions from current measurements on a 1-MA linear transformer driver. <i>Physics of Plasmas</i> , 2016 , 23, 101206	2.1	9
31	Diagnostic and Power Feed Upgrades to the MAIZE Facility. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3973-3981	1.3	9
30	CST Particle Studio Simulations of Coaxial Multipactor and Comparison With Experiments. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1942-1949	1.3	8
29	Multi-frequency recirculating planar magnetrons. <i>Applied Physics Letters</i> , 2016 , 109, 074101	3.4	8
28	Stabilization of Liner Implosions via a Dynamic Screw Pinch. <i>Physical Review Letters</i> , 2020 , 125, 035001	7.4	7
27	Double and Single Planar Wire Arrays on University-Scale Low-Impedance LTD Generator. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 432-440	1.3	7
26	Explicit Brillouin Flow Solutions in Magnetrons, Magnetically Insulated Line Oscillators, and Radial Magnetically Insulated Transmission Lines. <i>IEEE Transactions on Plasma Science</i> , 2021 , 1-20	1.3	7
25	. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1894-1901	1.3	6
24	The Electrothermal Instability On Pulsed Power Ablations Of Thin Foils* 2017 ,		5
23	Additively Manufactured High Power Microwave Anodes. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1258-1264	1.3	5
22	High-Power Recirculating Planar Crossed-Field Amplifier Design and Development. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2361-2365	2.9	5
21	Harmonic Frequency Locking in the Multifrequency Recirculating Planar Magnetron. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2347-2353	2.9	5
20	Brazed carbon fiber fabric field emission cathode. <i>Review of Scientific Instruments</i> , 2020 , 91, 064702	1.7	4
19	A pulsed-power implementation of "Laser Gate" for increasing laser energy coupling and fusion yield in magnetized liner inertial fusion (MagLIF). <i>Review of Scientific Instruments</i> , 2020 , 91, 063507	1.7	4
18	Pulse Shortening in Recirculating Planar Magnetrons. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2354-2360	2.9	4
17	Reduction of ablated surface expansion in pulsed-power-driven experiments using an aerosol dielectric coating. <i>Physics of Plasmas</i> , 2019 , 26, 070704	2.1	4

16	Extended magnetohydrodynamics simulations of thin-foil Z-pinch implosions with comparison to experiments. <i>Physics of Plasmas</i> , 2020 , 27, 092705	2.1	3
15	Metal-oxide-junction, triple point cathodes in a relativistic magnetron. <i>Review of Scientific Instruments</i> , 2008 , 79, 064705	1.7	3
14	Optimization of switch diagnostics on the MAIZE linear transformer driver. <i>Review of Scientific Instruments</i> , 2019 , 90, 124707	1.7	3
13	Studies of Implosion and Radiative Properties of Tungsten Planar Wire Arrays on Michigan's Linear Transformer Driver Pulsed-Power Generator. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3778-3788	1.3	3
12	Coaxial all cavity extraction in the Recirculating Planar Magnetron 2014 ,		2
11	Liner implosion experiments driven by a dynamic screw pinch. <i>Physics of Plasmas</i> , 2021 , 28, 082707	2.1	2
10	Theory, simulation, and experiments on a magnetically insulated line oscillator (MILO) at 10 kA, 240 kV near Hull cutoff condition. <i>Physics of Plasmas</i> , 2021 , 28, 123102	2.1	2
9	Pulse-shortening in recirculating planar magnetrons 2017 ,		1
8	Coaxial Multipactor Susceptibility at GHz Frequencies 2019 ,		1
7	Development of a compact LTD pulse generator for X-ray backlighting of planar foil ablation experiments 2013 ,		1
6	Experiments on a 10 kA, 240 kV Magnetically Insulated Line Oscillator (MILO) 2021 ,		1
5	High-Power Amplification Experiments on a Recirculating Planar Crossed-Field Amplifier. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1917-1922	1.3	1
4	Additively manufactured electrodes for plasma and power-flow studies in high-power transmission lines on the 1-MA MAIZE facility. <i>Review of Scientific Instruments</i> , 2021 , 92, 053550	1.7	1
3	Load dynamics of double planar foil liners and double planar wire arrays on the UM MAIZE LTD generator. <i>Physics of Plasmas</i> , 2021 , 28, 082702	2.1	1
2	Multipactor experiments on an S-band coaxial test cell.. <i>Review of Scientific Instruments</i> , 2021 , 92, 124706.7	1.7	1
1	Frequency and Power Measurements on the Harmonic Recirculating Planar Magnetron. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1868-1878	1.3	0